ORDER No. ACED020485C3

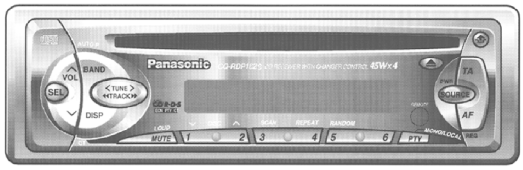
Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

COMPACT disc DIGITAL AUDIO

CQ-RDP102S

CD Player / Receiver with CD Changer Control



SPECIFICATIONS

Specification*

General	
Power Supply	**DC 12V (11V - 16V),** **Test Voltage 14.4V** **Negative Ground**
Tone Controls	**Bass ; ±12dB at 100Hz** **Treble ; ±12dB at 10kHz**
Current Consumption	**Less than 2.5A (CD play mode, 0.5W×4ch)**
Maximum Power Output	**45W×4ch (at 4 Ω)**
Power Output	**20W×4 (DIN45 324, at 4 Ω)**
Speaker Impedance	**4-8 Ω**
Pre-Amp Output Voltage	**2V (CD mode)**
Pre-Amp Output Impedance	**600 Ω**
FM Stereo Radio	
Frequency Range	**87.5 - 108MHz**
Usable Sensitivity	**6dB/ μ V (S/N 30dB)**
LW Radio	
Frequency Range	**153 - 279kHz**
Usable Sensitivity	**32dB/ μ V (S/N 20dB)**
MW Radio	
Frequency Range	**531 - 1,602kHz**
Usable Sensitivity	**28dB/ μ V (S/N 20dB)**
CD Player	
Sampling Frequency	**8 times oversampling**
Pick-Up Type	**Astigma 3-beam**
Light Source	**Semiconductor Laser**
Wavelength	**780nm**
Frequency Response	**20Hz to 20,000Hz (±1dB)**
Signal to Noise Ratio	**96dB**
Dimensions**	**178×50×150mm**
Weight**	**1.4kg**

*** Specifications and the design are subject to possible modification without notice due to improvements.**
**** Dimensions and Weight shown are approximate.**

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. FEATUERS

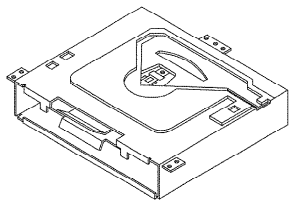
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan
- RDS (Radio Data System) reception.
- Digital servo for reliable CD playback.
- Removable face plate.

2. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3. REPLACEING THE FUSE

Use fuses of the same specified rating (15A). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

4. MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

5. NOTES

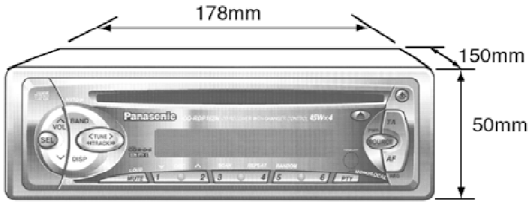
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

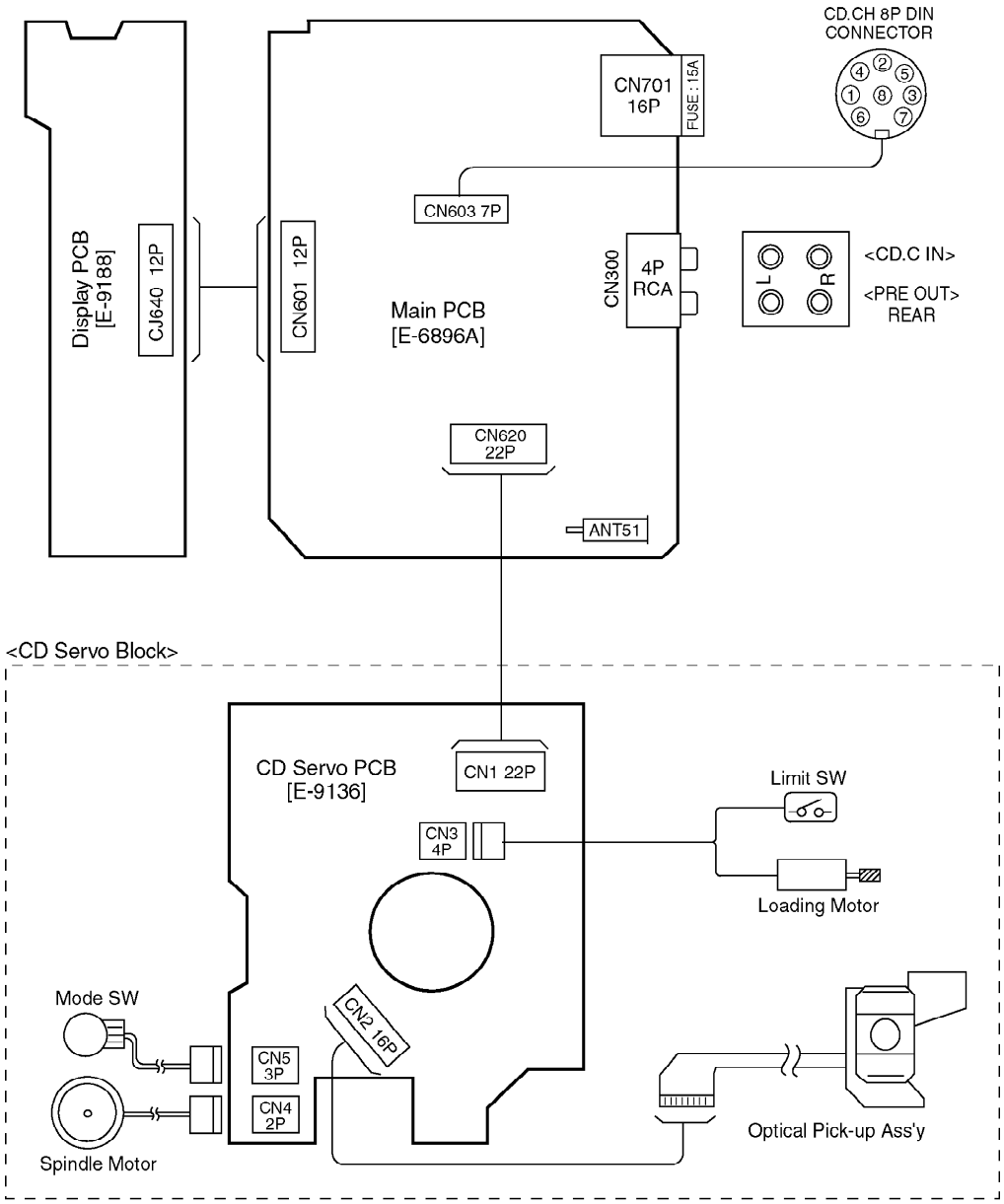
[CD DECK BLOCK]

This model has no servo alignment points because microcomputer controls the servo circuit.

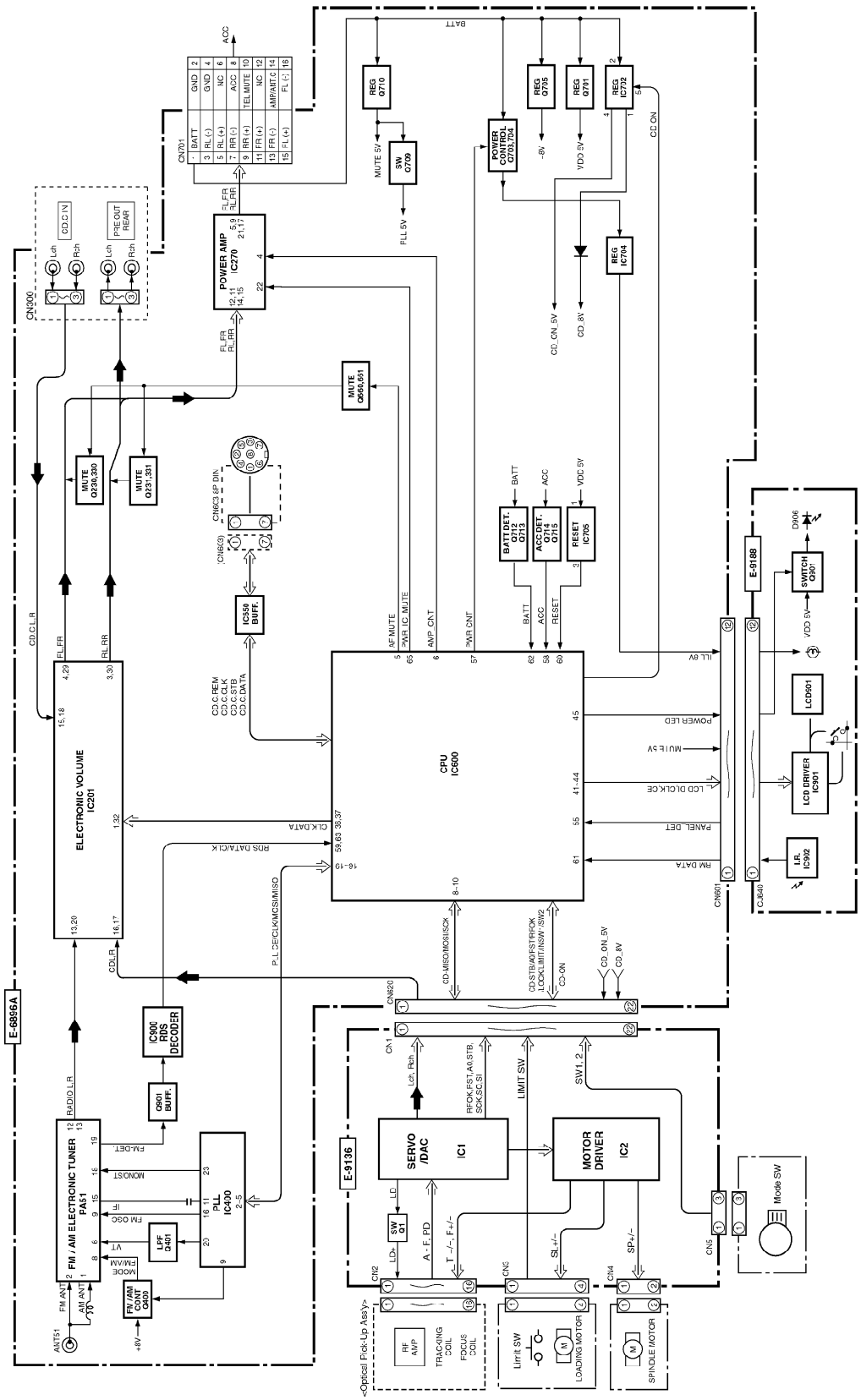
6. DIMENSIONS



7. WIRING CONNECTION



8. BLOCK DIAGRAM



9. TERMINALS DESCRIPTION

9.1. Main Block

IC600 : C2CBHF000217

Pin No.	Port	Descriptions	I/O(V)	FM (V)	AM (V)	CD (V)
1	NC	(Connecting to ground)	-	0	0	0
2	NC	(Connecting to ground)	-	0	0	0
3	NC	(Connecting to ground)	-	0	0	0
4	AVSS	Analog ground	-	0	0	0
5	AF MUTE	AF mute	O	5.1	5.1	5.2
6	AMP-CNT	Power Amp. stand-by	O	5.1	5.1	5.2
7	AVREF	Reference voltage	-	5.1	5.1	5.2
8	CD-MISO	CD data	I	0	0	0
9	CD-MOSI	CD data	O	0	0	2.4
10	CD-SCK	CD clock	O	0	0	5.1
11	CD.C DATA	CD.CH data	I	0	0	0
12	NC	No connection	-	-	-	-
13	CD.C CLK	CD.CH data shift clock	I	0	0	0
14	REM OUT	CD.CH remote cont.	O	5.0	5.0	5.0
15	BZOUT	Beep output	O	0	0	0
16	PLL-MISO	Data from PLL	I	5.1	5.1	5.1
17	PLL-MOSI	Data for PLL	O	0	0	0
18	PLL-CLK	Clock for PLL	O	5.1	5.1	5.2
19	PLL-CE	PLL chip enable	O	0	0	0
20	NC	No connection	-	-	-	-
21	NC	No connection	-	-	-	-
22	NC	No connection	-	-	-	-
23	NC	No connection	-	-	-	-
24	CD-STB	CD strobe	O	0	0	5.1
25	CD-A0	CD address 0	O	0	0	4.4
26	CD-RST	CD reset	O	0	0	5.1
27	CD-RFOK	CD RFOK signal	I	0	0	5.0
28	CD-LOCK	CD lock signal	I	0	0	5.0
29	CD-LIMIT	CD limit sw	I	0	0	5.1
30	CD-SW2	CD SW2	I	5.1	5.1	0
31	NC	No connection	-	-	-	-
32	NC	No connection	-	-	-	-
33	Vss	Ground	-	0	0	0
34	S.LED	Security LED on/off	O	0	0	0
35	ST-IND	FM stereo detection	I	5.0	5.1	5.1
36	IC2-CLK	Electronic volume clock	O	5.1	5.1	5.2
37	IC2-DATA	Electronic volume data	I/O	5.1	0	5.2
38	NC	No connection	-	-	-	-
39	NC	No connection	-	-	-	-
40	NC	No connection	-	-	-	-
41	LCD-MOSI	LCD data output	O	0	0	0
42	LCD-MISO	LCD data input	I	5.0	5.0	5.0
43	LCD-CLK	LCD clock	O	0	0	0
44	LCD-CE	LCD chip enable output	O	0	0	0
45	POWER LED	Pilot lamp on	O	0	0	0
46	ANT.CONT	Motor antenna control	O	5.1	5.1	0
47	NC	No connection	-	-	-	-
48	NC	No connection	-	-	-	-
49	REM-IN_SUB	Remote control sig. sampling	I	0	4.4	4.4
50	NC	No connection	-	-	-	-

Pin No.	Port	Descriptions	I/O(V)	FM (V)	AM (V)	CD (V)
51	NC	No connection	-	-	-	-
52	NC	No connection	-	-	-	-
53	NC	No connection	-	-	-	-
54	TEL-MUTE	Not used	-	-	-	-
55	PANEL-DET	Panel detect	I	0	4.8	4.9
56	CD-ON	CD power control	O	0	0	5.1
57	PWR CNT	Power control	O	5.0	5.0	5.0
58	ACC-DET	ACC detection	I	5.1	5.1	5.1
59	RDS DATA	RDS data	I	2.5	0	0
60	/RESET	Reset input	I	5.1	5.1	5.1
61	REM	Remocon data input	I	4.4	4.4	4.4
62	BATT	Battery detection	I	5.1	5.1	5.1
63	RDS CLK	RDS clock	I	2.5	0	0
64	CD.C.STB	CD.CH data strobe	I	0	0	0
65	PWR-IC-MUTE	Mute control	O	5.1	5.1	5.1
66	CD-INSW1	CD insert detection SW	I	0	0	0
67	VSS	Ground	-	0	0	0
68	VDD	+5V power supply	-	5.1	5.1	5.1
69	X2	Crystal oscillator	-	3.1	3.1	3.1
70	X1	Crystal oscillator	-	2.2	2.2	2.2
71	Vpp	(Ground pull-down)	-	0	0	0
72	SUB-X2	Crystal oscillator	-	3.1	3.1	3.1
73	SUB-X1	Crystal oscillator	-	2.5	2.5	2.5
74	AVDD	+5V power supply	-	5.1	5.1	5.1
75	AVREF	(Connecting to VDD)	-	5.1	5.1	5.1
76	VSM_DET	S-meter detection	I	0	0	0
77	INIT A	Initial value A	I	0	0	0
78	INIT B	Initial value B	I	5.1	5.1	5.1
79	INIT C	Initial value C	I	5.1	5.1	5.1
80	INIT D	Initial value D	I	0	0	0

Note 1 :

Voltage measuerments are with respect to ground, with a voltmeter (internal resistance : 10M ohms).

9.2. Display Block

IC901 : YEAMLC75854T

Pin No.	Port	Descriptions	I/O (V)	(V)
1-8	SEG1-8	LCD segment	O	2.5
9-35	SEG9-35	LCD segment	O	2.5
36-39	NC	No connection	-	-
40-43	COM1-4	LCD common	O	2.5
44-49	KS1-6	Key data output	O	0.9
50-54	KI1-5	Key data input	I	0
55	TEST	(Connecting to ground)	-	0
56	VDD	+5V power supply	-	5.1
57	VDD1	Ground through capacitor	-	3.3
58	VDD2	Ground through capacitor	-	1.7
59	Vss	Ground	-	0
60	OSC	CR oscillator	-	3.9
61	DO	Key data output	O	4.4
62	CE	Chip enable	I	0
63	CLK	LCD clock	I	0
64	DI	LCD data input	I	0

9.3. CD Servo Block

IC1 : C1BB00000665

Pin No.	Port	Descriptions	I/O	Vol.(V)
1	D.GND	Digital logic Ground	-	0
2	RFOK	RFOK output signal	O	5.0
3	/RST	System reset	I	5.1
4	A0	Command/Parameter specification	I	4.5
5	/STB	Serial data strobe	I	5.1
6	/SCK	Data shift clock	I	5.1
7	SO	Serial data	O	0
8	SI	Serial data	I	2.4
9	XTALEN	(Connecting to ground)	-	0
10	D.VDD	Digital logic power supply	-	5.0
11	DA.VDD	DAC power supply	-	4.8
12	R_OUT	Audio R ch	O	2.4
13	DA.GND	DAC ground	-	0
14	REGC	Bypass capacitor for SCF regurator	-	2.5
15	DA.GND	DAC ground	-	0
16	L_OUT	Audio L ch	O	2.4
17	DA.VDD	DAC power supply	-	4.8
18	R+	Not used	-	-
19	R-	Not used	-	-
20	L-	Not used	-	-
21	L+	Not used	-	-
22	X.VDD	Crystal OSC power supply	-	5.0
23	/XTAL	Crystal OSC terminal	-	2.4
24	XTAL	Crystal OSC terminal	-	2.2
25	X.GND	Crystal OSC ground	-	0
26	D.VDD	Digital logic power supply	-	5.0
27	EMPH	Not used	-	-
28	FLAG	Not used	-	-
29	DIN	DAC serial data	I	2.6
30	DOUT	DAC serial data	O	2.6
31	SCKIN	DAC shift clock	I	2.7
32	SCKO	DAC shift clock	O	2.7

Pin No.	Port	Descriptions	I/O	Vol.(V)
33	LRCKIN	DAC LRCK signal	I	2.5
34	LRCK	DAC LRCK signal	O	2.5
35	HOLD/WDCK	Not used	-	-
36	TX	Not used	-	-
37	D.GND	Digital logic Ground	-	0
38	C16M	Not used	-	-
39	LIMIT	(Connecting to VDD)	-	5.0
40	D.VDD	Digital logic power supply	-	5.0
41	LOCK	EFM SYNC detection	O	5.0
42	RFCK	Not used	-	-
43	MIRR/WFCK	Not used	-	-
44	PLCK	Not used	-	-
45	D.GND	Digital logic Ground	-	0
46	C1D1	Not used	-	-
47	C1D2	Not used	-	-
48	C2D1	Not used	-	-
49	C2D2	Not used	-	-
50	C2D3	Not used	-	-
51	D.VDD	Digital logic power supply	-	5.0
52	PACK	Not used	-	-
53	TSO	Not used	-	-
54	TSI	(Connecting to ground)	-	0
55	/TSCK	(Connecting to ground)	-	0
56	TSTB	(Connecting to ground)	-	0
57	D.GND	Digital logic Ground	-	0
58	TEST0	(Connecting to ground)	-	0
59	TEST1	(Connecting to ground)	-	0
60	ATEST	Not used	-	2.1
61	A.GND	Analog logic Ground	-	0
62	FD	Focus drive	O	2.6
63	TD	Traking drive	O	2.5
64	SD	Sled drive	O	2.5
65	MD	Spindle drive	O	2.6
66	DAC0	Not used	-	-
67	DAC1	Not used	-	-
68	DAC2	Not used	-	-
69	DAC3	Not used	-	-
70	A.VDD	Analog logic power supply	-	5.0
71	EFM	EFM signal	O	2.7
72	ASY	Reference voltage for EFM comp.	I	2.5
73	C3T	Capacitor terminal for 3T detection	-	2.7
74	RFI	RF for EFM data generation	I	2.5
75	AGCO	RF signal output (after gain adjustment)	O	2.5
76	AGCI	RF-AGC amp input	I	2.5
77	RFO	RF summing amp output	O	2.8
78	EQ2	C/R terminal for RF amp equalizer	-	2.6
79	EQ1	C/R terminal for RF amp equalizer	-	0.5
80	RF-	RF summing amp inverted input	I	2.4
81	A.GND	Analog logic Ground	-	0
82	A	Photo detector A input	I	2.7
83	C	Photo detector C input	I	2.5
84	B	Photo detector B input	I	2.7
85	D	Photo detector D input	I	2.5
86	F	Photo detector F input	I	3.0

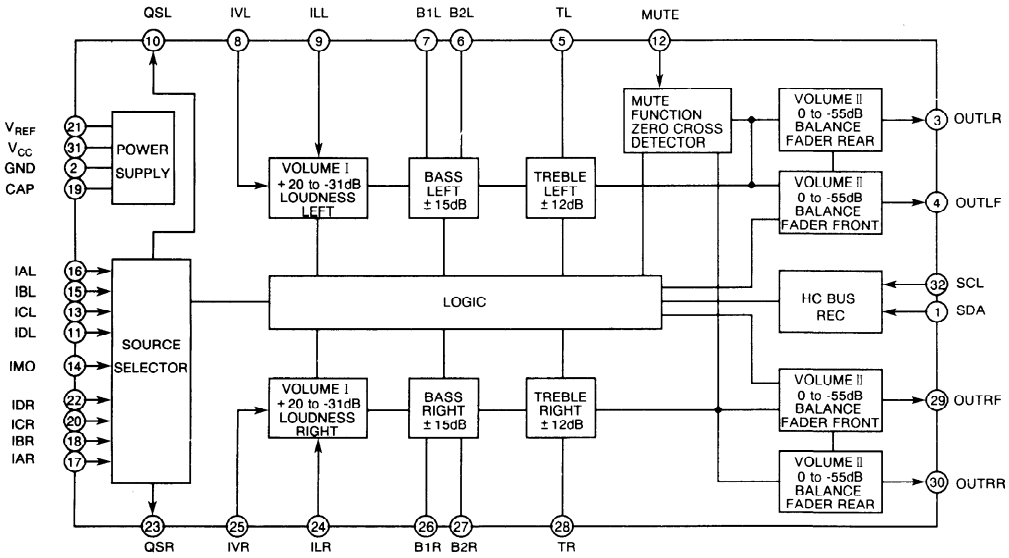
Pin No.	Port	Descriptions	I/O	Vol.(V)
87	E	Photo detector E input	I	3.0
88	A.VDD	Analog logic power supply	-	5.0
89	REFOUT	Reference voltage output	O	2.5
90	FE-	Focus error amp input	I	2.5
91	FE0	Focus error amp output	O	2.5
92	TE-	Tracking error amp input	I	2.5
93	TE0	Tracking error amp output	O	2.5
94	TE2	Tracking error amp output	O	2.6
95	TEC	Tracking comparator input	I	2.5
96	A.GND	Analog logic Ground	-	0
97	PD	PD detection	I	0
98	LD	LD control	O	3.6
99	PN	(Connecting to ground)	-	0
100	A.VDD	Analog logic power supply	-	5.0

10. PACKAGE AND IC BLOCK DIAGRAM

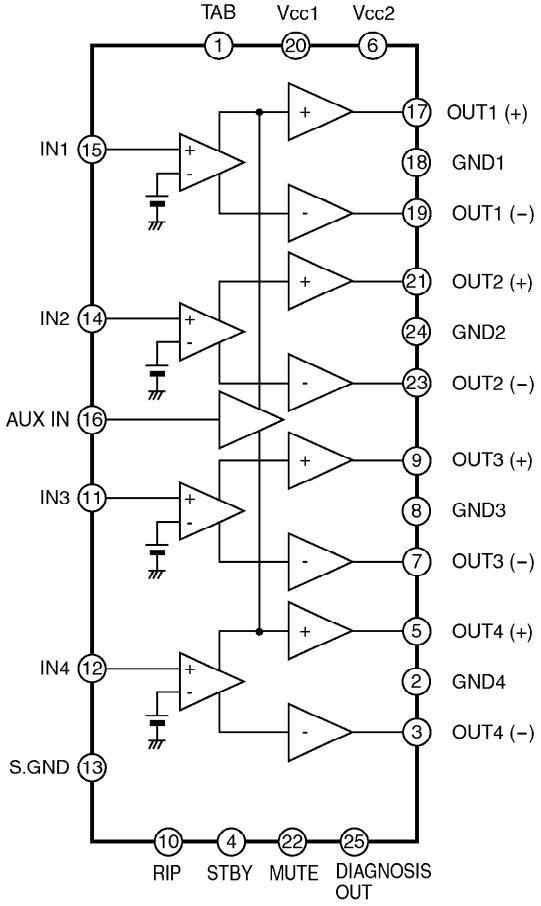
10.1. Main Block

PA51 : C5BA00000106

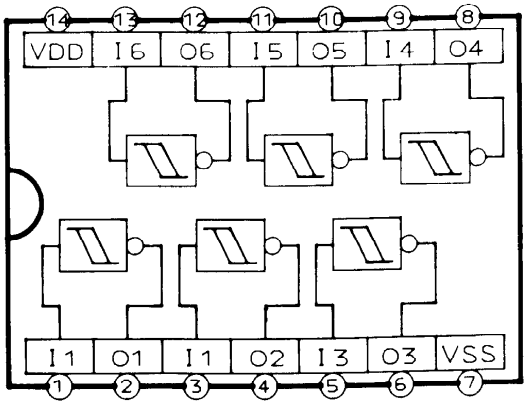
IC201 : YEAMEA6320TT



IC270 : C1EA00000028

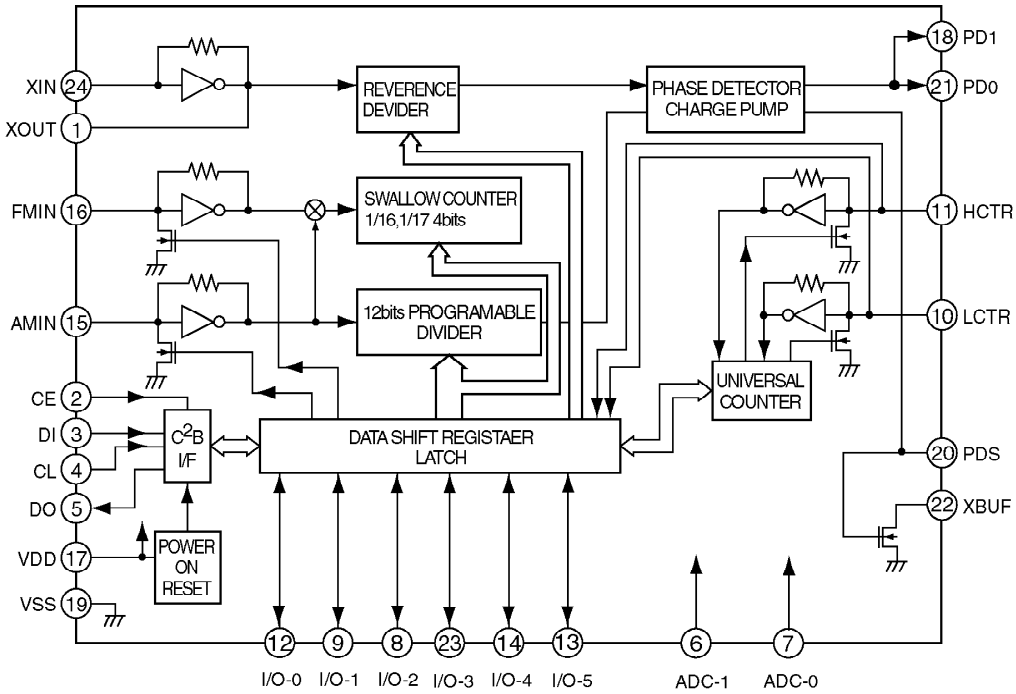


IC650 : C0JBAZ000904



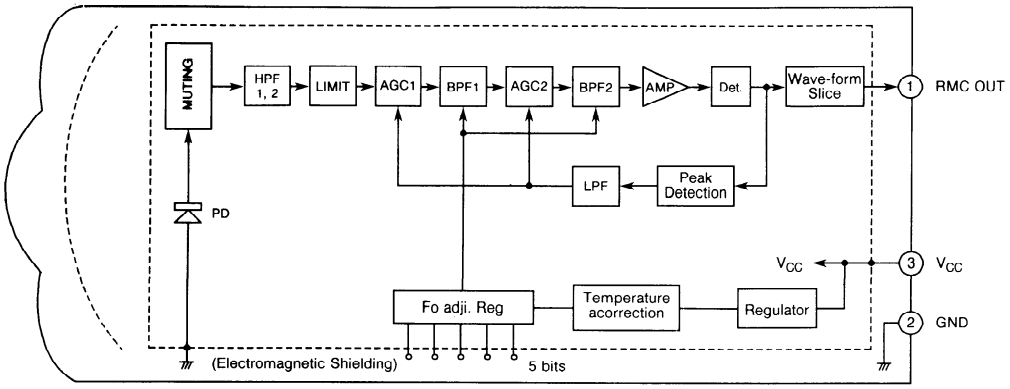
IC900 : YEAMDA7479D

IC400 : C1BB00000541



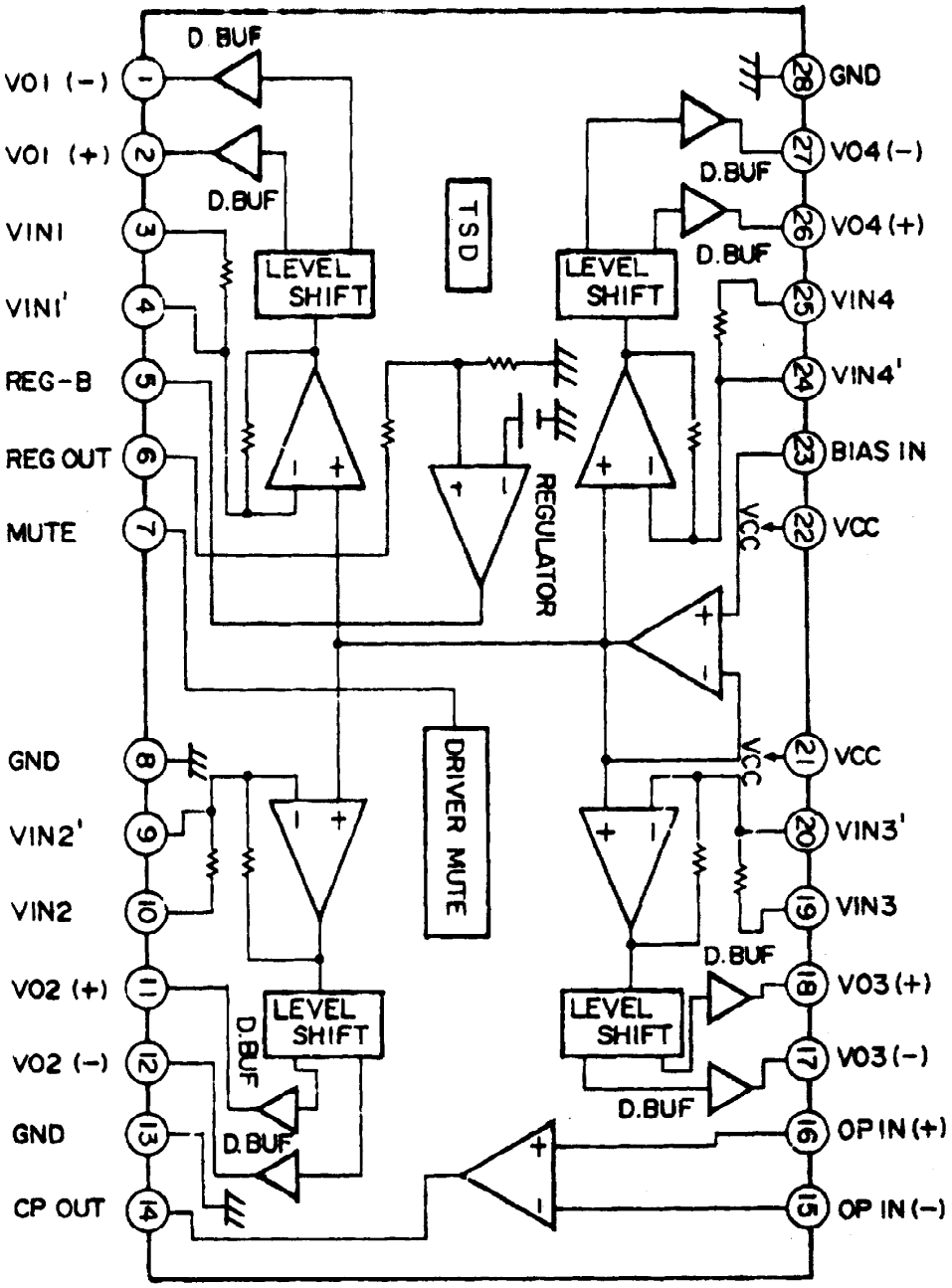
10.2. Display Block

IC902 : YEAMSBX8035F



10.3. CD Servo Block

IC2 : C0GBY0000020



11. REPLACEMENT PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**

3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

Ref. No.	Part No.	Part Name & Description	Remarks
[E6896A] Main Block			
IC's and TRANSISTORs			
IC201	YEAMEA6320TT	IC	
IC270	C1EA00000028	IC	
IC400	C1BB00000541	IC	
IC600	C2CBHF000217	IC	
IC650	C0JBAZ000904	IC	
IC702	C0DAZHG00038	IC	
IC704	C0CAAGG00018	IC	
IC705	C0EBG0000038	IC	
IC900	YEAMDA7479D	IC	
PA51	C5BA00000106	Electronic Tuner	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q400	B1GDKFEJ0001	Transistor	
Q401	YEAN2SK536TB	Transistor	
Q660	B1GDCFJJ0023	Transistor	
Q661	B1GDCFJJ0023	Transistor	
Q701	B1ABMD000008	Transistor	
Q703	B1BCCG000014	Transistor	
Q704	B1GBCFEH0001	Transistor	
Q705	B1BACG000022	Transistor	
Q709	B1GDCFJN0013	Transistor	
Q710	B1ABMD000008	Transistor	
Q712	B1GDCFNN0016	Transistor	
Q713	B1GBBFCJ0001	Transistor	
Q714	B1GDCFNN0016	Transistor	
Q715	B1GBBFCJ0001	Transistor	
Q901	B1ABCF000095	Transistor	
DIODEs			
D101	YEAD1SS133T	Diode	
D102	YEAD1SS133T	Diode	
D201	B0EAKP000011	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D202	B0EAKP000011	Diode	
D203	B0EAKP000011	Diode	
D204	B0EAKP000011	Diode	
D301	B0EAKP000011	Diode	
D302	B0EAKP000011	Diode	
D303	B0EAKP000011	Diode	
D304	B0EAKP000011	Diode	
D602	LN25RP	LED	
D702	YEAD1SS133T	Diode	
D703	B0BA5R700006	Diode	
D705	YEAD1SS133T	Diode	
D706	YERAD0001	Diode	
D707	YEAD11ES2T	Diode	
D708	B0BA8R700005	Diode	
D709	MA152WATX	Diode	
D712	B0BA6R700008	Diode	
D713	B0BA5R700006	Diode	
D727	YEAD11ES2T	Diode	
D728	YEAD11ES2T	Diode	
D729	B0EAKP000011	Diode	
CAPACITORs			
C51	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C52	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C53	F1H1E273A011	Ceramic, 0.027 μ F 25WV	
C56	F1H1E273A011	Ceramic, 0.027 μ F 25WV	
C57	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C60	F1H1H8R0A226	Ceramic, 8PF 50WV	
C201	YERCC121J1H	Ceramic, 120PF 50WV	
C203	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C204	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C205	ECEA1HKA010I	Electrolytic, 1 μ F 50WV	
C208	YECUZ1C333KX	Ceramic, 0.033 μ F 16WV	
C209	YECUZ1H562KX	Ceramic, 5600PF 50WV	
C210	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C211	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C212	YERCC121J1H	Ceramic, 120PF 50WV	
C230	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C231	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C240	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C241	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C249	YERCC122K1H	Ceramic, 1200PF 50WV	
C250	YERCC122K1H	Ceramic, 1200PF 50WV	
C278	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C279	YERCC152K1H	Ceramic, 1500PF 50WV	
C301	YERCC121J1H	Ceramic, 120PF 50WV	
C303	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C304	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C305	ECEA1HKA010I	Electrolytic, 1 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C308	YECUZ1C333KX	Ceramic, 0.033 μ F 16WV	
C309	YECUZ1H562KX	Ceramic, 5600PF 50WV	
C310	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C311	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C312	YERCC121J1H	Ceramic, 120PF 50WV	
C330	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C331	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C340	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C341	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C349	YERCC122K1H	Ceramic, 1200PF 50WV	
C350	YERCC122K1H	Ceramic, 1200PF 50WV	
C401	F1H1H1500005	Ceramic, 15PF 50WV	
C402	F1H1H1500005	Ceramic, 15PF 50WV	
C403	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C404	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C405	YERCC101J1H	Ceramic, 100PF 50WV	
C408	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C409	ECQV1H104JL2	Plastic Film, 0.1 μ F 50WV	
C410	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C411	YEREC221M1A	Electrolytic, 220 μ F 10WV	
C413	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C415	YECUZ1H221JC	Ceramic, 220PF 50WV	
C417	YEREC221M1A	Electrolytic, 220 μ F 10WV	
C603	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C604	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C605	YEREC331M0J	Electrolytic, 330 μ F 6.3WV	
C607	EECS5R5T473S	Electrolytic, 0.047F 5.5WV	
C608	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C610	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C611	YERCC104Z1H	Ceramic, 0.1 μ F 50WV	
C613	YERCC104Z1H	Ceramic, 0.1 μ F 50WV	
C621	F1H1H2200005	Ceramic, 22PF 50WV	
C622	F1H1H2200005	Ceramic, 22PF 50WV	
C631	ECEA1CKA220I	Electrolytic, 22 μ F 16WV	
C650	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C660	ECEA1HKA010I	Electrolytic, 1 μ F 50WV	
C661	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C690	YERCC152K1H	Ceramic, 1500PF 50WV	
C702	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C703	F1J1C1050013	Ceramic, 1 μ F 16WV	
C707	ECA1CM221	Electrolytic, 220 μ F 16WV	
C710	YEREC102M1C	Electrolytic, 1000 μ F 16WV	
C711	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	
C712	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C714	ECEA0JKA221I	Electrolytic, 220 μ F 6.3WV	
C715	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	
C716	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C717	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	
C720	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C721	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	
C723	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C731	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C732	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C735	YEREC332M1C	Electrolytic, 3300 μ F 16WV	
C736	ECEA1HKA010I	Electrolytic, 1 μ F 50WV	
C737	YEREC221M1A	Electrolytic, 220 μ F 10WV	
C901	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C902	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C903	YERCC103K1H	Ceramic, 0.01 μ F 50WV	
C904	YECUZ1H270JC	Ceramic, 27PF 50WV	
C905	YECUZ1H270JC	Ceramic, 27PF 50WV	
C906	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C907	F1H1H2710007	Ceramic, 270PF 50WV	
C909	YERCC471J1H	Ceramic, 470PF 50WV	
RESISTORs			
R50	ERJ3GEYJ5R6	Chip, 5.6 Ω 1/16W	
R52	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R53	ERJ3GEYJ331V	Chip, 330 Ω 1/16W	
R58	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R59	ERDS2TJ3R3	Carbon, 3.3 Ω 1/4W	
R201	ERJ3GEYJ183V	Chip, 18k Ω 1/16W	
R202	ERJ3GEYJ183V	Chip, 18k Ω 1/16W	
R204	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R205	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R230	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R235	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R236	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R241	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R243	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R301	ERJ3GEYJ183V	Chip, 18k Ω 1/16W	
R302	ERJ3GEYJ183V	Chip, 18k Ω 1/16W	
R304	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R305	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R330	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R335	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R336	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R341	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R343	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R401	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R402	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R403	ERJ3GEYJ471V	Chip, 470 Ω 1/16W	
R406	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R407	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R408	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R409	ERJ3GEYJ563V	Chip, 56k Ω 1/16W	
R411	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R601	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R602	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R604	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R608	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R609	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R610	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R611	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R614	ERJ6GEYJ681V	Chip, 680 Ω 1/10W	
R615	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R616	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R617	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R618	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R619	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R620	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R621	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R622	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R623	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R632	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R639	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R640	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R641	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R642	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R645	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R649	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R650	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R651	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R652	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R653	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R654	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R660	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R661	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R686	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R690	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R691	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R692	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R698	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R699	ERJ3GEYJ334V	Chip, 330k Ω 1/16W	
R701	ERDS2FJ4R7	Carbon, 4.7 Ω 1/4W	
R702	ERDS2FJ4R7	Carbon, 4.7 Ω 1/4W	
R703	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
R705	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R706	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R707	ERJ6GEYJ154	Chip, 150k Ω 1/10W	
R708	ERJ6GEYJ223V	Chip, 22k Ω 1/10W	
R709	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R710	ERDS1FJ681	Carbon, 680 Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680 Ω 1/2W	
R712	ERDS2FJ1R0T	Carbon, 1.0 Ω 1/4W	
R713	ERDS2FJ1R0T	Carbon, 1.0 Ω 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R714	ERDS2TJ681	Carbon, 680 Ω 1/4W	
R720	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R721	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R722	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R723	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R724	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R725	ERJ3GEYJ154V	Chip, 150k Ω 1/16W	
R726	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R727	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R728	ERJ6GEYJ154	Chip, 150k Ω 1/10W	
R729	ERDS2TJ103	Carbon, 10k Ω 1/4W	
R735	ERJ3GEYJ471V	Chip, 470 Ω 1/16W	
R901	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R902	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R903	ERJ3GEYJ225V	Chip, 2.2M Ω 1/16W	
R904	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R905	ERJ3GEYJ334V	Chip, 330k Ω 1/16W	
R906	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
CONNECTORs			
CN300	YEAE02166	Connector, 4P RCA	
CN601	YEAE012475	Connector, 12P	
CN603	YEAJ071535A	Connector w/Cable, 8P DIN	
CN620	YERAE01003	Connector, 22P	
CN701	K1FA116B0025	Connector, 16P	
COILs			
L50	YELT02C330KT	Coil	
L400	YELT02C101KT	Coil	
L701	YERST0001	Coil	
L901	YELT02C101KT	Coil	
CRYSTALs			
XL400	H0D103500001	Crystal	
XL600	YERCF0002	Crystal	
XL601	YERXL0001	Crystal	
XL901	YEXL49U0433T	Crystal	
THERMISTOR			
PT701	YERT7AR4R7MT	Thermister	
[E9188] Display Block			
IC's and TRANSISTORs			
IC901	YEAMLC75854T	IC	
IC902	YEAMSBX8035F	IC	
Q901	B1GDCFJJ0023	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
DIODEs			
D901	MA8056L	Diode	
D902	MA8056L	Diode	
D903	MA8056L	Diode	
D904	MA8056L	Diode	
D905	MA8056L	Diode	
D906	B3AAB0000080	Diode	
D925	LN1361C6TR	Diode	
D926	LN1361C6TR	Diode	
D927	LN1361C6TR	Diode	
D929	LN1361C6TR	Diode	
D930	LN1361C6TR	Diode	
D931	LN1361C6TR	Diode	
D932	LN1361C6TR	Diode	
D933	LN1361C6TR	Diode	
CAPACITORs			
C901	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C902	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C903	YECUS1H681JC	Ceramic, 680PF 50WV	
C904	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C905	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C906	YECUS1H102KX	Ceramic, 1000PF 50WV	
C912	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
RESISTORs			
R901	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R902	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R903	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R904	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R905	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R906	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R908	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R909	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R910	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R911	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R912	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R921	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R922	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R923	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R929	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R930	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R931	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
CONNECTOR			
CJ640	YEAE012476	Connector, 12P	

Ref. No.	Part No.	Part Name & Description	Remarks
SWITCHEs			
SW902	YEAS09312	Switch	
SW903	YEAS09312	Switch	
SW904	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW908	YEAS09312	Switch	
SW909	YEAS09312	Switch	
SW910	YEAS09312	Switch	
SW912	YEAS09312	Switch	
SW913	YEAS09312	Switch	
SW914	YEAS09312	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	YEAS09312	Switch	
SW918	YEAS09312	Switch	
SW919	YEAS09312	Switch	
SW920	YEAS09312	Switch	
SW921	YEAS09312	Switch	
SW922	YEAS09312	Switch	
SW926	YEAS09312	Switch	
LCD			
LCD901	YEXDCM1235	LCD	
LAMPs			
PL921	YEALHSLG003	Pilot Lamp	
PL922	YEALHSLG003	Pilot Lamp	
[E9136] CD Servo Block			
IC's and TRANSISTORs			
IC1	C1BB00000665	IC	
IC2	C0GBY0000020	IC	
Q1	B1BDBC000001	Transistor	
DIODEs			
D1	B0ACCK000005	Diode	
CAPACITORs			
C3	F1H1H8R0A226	Ceramic, 8PF 50WV	
C4	YECUZ1H270JC	Ceramic, 27PF 50WV	
C5	F1H1H4R00010	Ceramic, 4.0PF 50WV	
C6	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C7	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C8	YECUZ1H472KX	Ceramic, 4700PF 50WV	
C9	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C10	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C11	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	

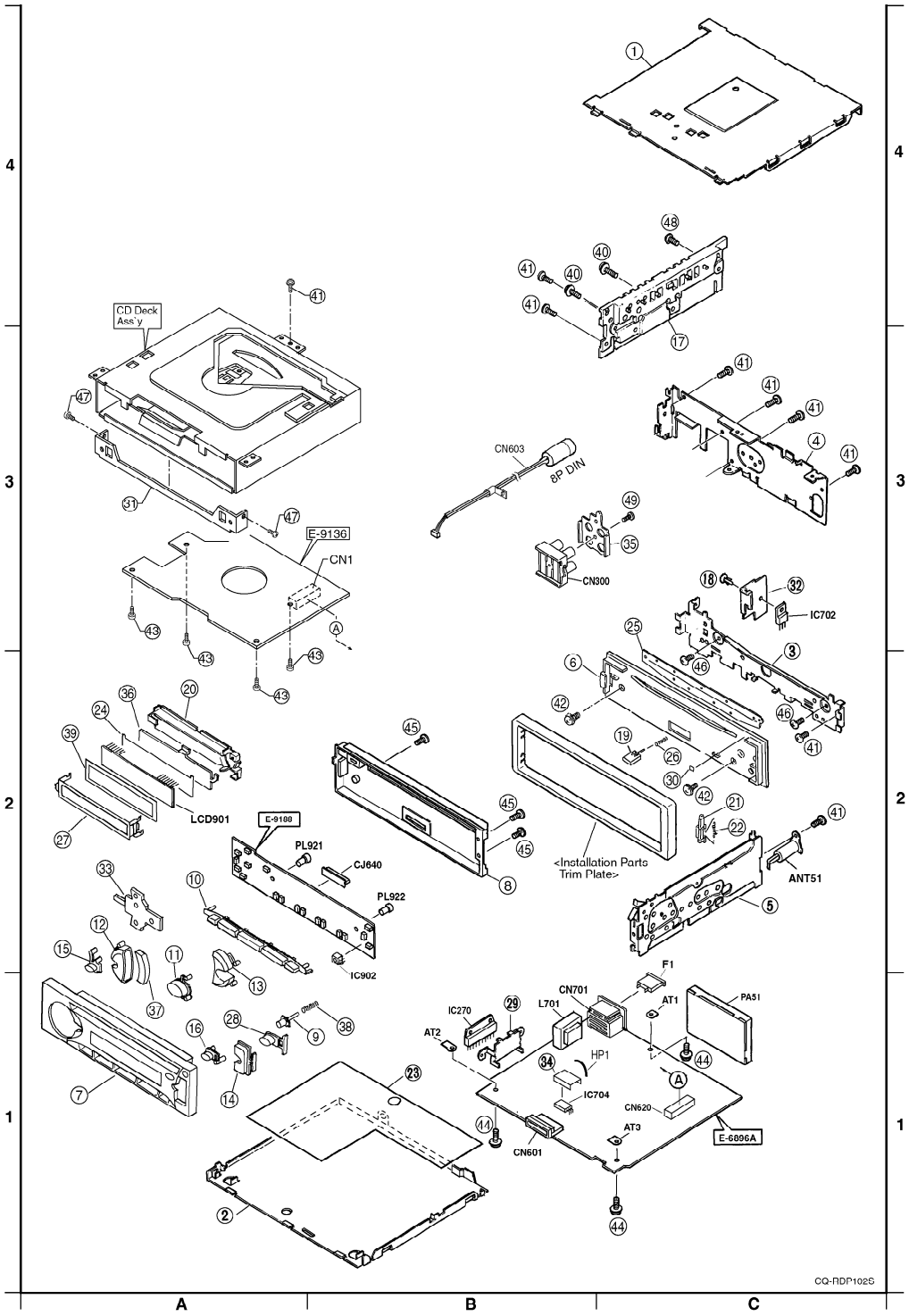
Ref. No.	Part No.	Part Name & Description	Remarks
C12	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C13	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C14	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C15	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C16	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C17	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C18	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C21	ECEV1CA100SR	Electrolytic, 10 μ F 16WV	
C24	YECUZ1H270JC	Ceramic, 27PF 50WV	
C25	YERCC560J1H	Ceramic, 56PF 50WV	
C26	YECUZ1H270JC	Ceramic, 27PF 50WV	
C27	ECEV1CA100SR	Electrolytic, 10 μ F 16WV	
C28	F1H1H2230002	Ceramic, 0.022 μ F 50WV	
C29	YECUZ1E104ZF	Ceramic, 0.1 μ F 25WV	
C30	ECEV1CA100SR	Electrolytic, 10 μ F 16WV	
C31	YEREC101M1AC	Electrolytic, 100 μ F 10WV	
C32	ECEV1CA100SR	Electrolytic, 10 μ F 16WV	
C33	YEREC220M1CC	Electrolytic, 22 μ F 16WV	
C37	YECUZ1H102KX	Ceramic, 1000PF 50WV	
RESISTORs			
J504	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J505	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J518	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J519	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J520	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J521	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J535	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J536	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J537	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J538	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J539	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J540	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J541	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J542	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J543	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J544	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J545	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J546	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J547	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J554	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J558	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J601	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J603	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J604	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J605	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J606	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J607	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
J608	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J609	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J610	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J611	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J612	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J613	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R1	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R2	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R3	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R4	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R5	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R6	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R7	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R8	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R13	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R14	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R15	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R16	ERJ3GEYJ220V	Chip, 22 Ω 1/16W	
R17	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R18	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R19	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R20	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R21	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R24	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R25	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R26	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R27	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R28	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R29	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R30	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R31	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R32	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
CONNECTORs			
CN1	YERAE01001	Connector, 22P	
CN2	YERAE01002	Connector, 16P	
CN3	YEAES04BZRSM	Connector, 4P	
CN4	K1KA02B00051	Connector, 2P	
CN5	YEAES03BZRSM	Connector, 3P	
COIL			
L1	YERLQ0001	Coil	
CRYSTAL			
XL1	YERCF0001	Crystal	
Accessories			

Ref. No.	Part No.	Part Name & Description	Remarks
INSTALLATION PARTs			
	YEFA131551	Front Panel Case	
	YEFC05589	Trim Plate	
Mechanical Parts			
MISCELLANEOUS			
F1	YEAF02015	Fuse, 15A	⚠
ANT51	YERAA0001	Antenna Receptacle	
AT1	YEATSD00405	Terminal, GND (CD)	
AT1-3	YERAT0001	Terminal, GND (Main)	
HP1	K4ZZ01000043	Clamp Wire	
1	YEFA031842	Top Cover	
2	YEFA05844	Bottom Cover	
3	YEFA07611	Front Plate	
4	YERFA08001	Back Panel	
5	YEFA09767	Side Plate (R) Ass'y	
6	YERFC02006	Escutcheon Unit	
7	YERFC02009	Escutcheon Ass'y, Detachable	
8	YEFA131569	Cover, Detachable	
9	YEFE136613	Button, RELEASE	
10	YEFE136608	Button, PRESET	
11	YEFE136604	Button, TUNE/TRACK	
12	YEFE136601	Button, VOL. UP/DOWN	
13	YEFE136603	Button, DISP/BAND	
14	YEFE136616	Button, TA/AF	
15	YEFE136600	Button, SEL	
16	YEFE136615	Button, SOURCE	
17	YEFF011106	Heat Sink	
18	YEFJ05046	Color Rivet	
19	YERFE131001	Push Lever	
20	YEFK06972	Illuminator Holder, LCD	
21	YERFX999002	Release Locker	
22	YERFX005012	Release Locker Spring	
23	YERFV01001	Insulator	
24	YEFV021556	LCD Diffuser	
25	YEFS02409	CD Dust Felt	
26	YERFX005011	Push Lever Spring	
27	YEFX0215180	Holder, LCD	
28	YEFE136612	Button, CD EJECT	
29	YEFX0215983	Bracket, IC270	
30	YERFS01003	Spacer	
31	YEFX0215984	Bracket, CD Deck	
32	YERFX02001	Bracket, IC702	
33	YEFX0012131	Light Guide	
34	YEFX0215980	Bracket, IC704	
35	YEFX0215982	Bracket, RCA 4P	
36	YEFX0012135	Illuminetor, LCD	
37	YEFX0012130	Blue Moon Indicator	
38	YEFX0052153	Spring	
39	YERFV02001	Shading Sheet	
40	YERJT01005	Tap Tite Screw, M3x10	

Ref. No.	Part No.	Part Name & Description	Remarks
41	XTB3+6FFX	Screw, M3x6	
42	YEJT03156	Screw, M2.6x8	
43	YERJT01008	Cup Tite Screw, M2x4	
44	YEJT03009	Screw, M3x6	
45	XTN2+8GFZ	Screw, M2x8	
46	YEJT03267	Screw, M2.8x5	
47	YERJT01006	Screw, M2x3	
48	YERJT01007	Tap Tite Screw, M3x5	
49	XTB3+8GFX	Screw, M3x8	

12. EXPLODED VIEW (Unit)

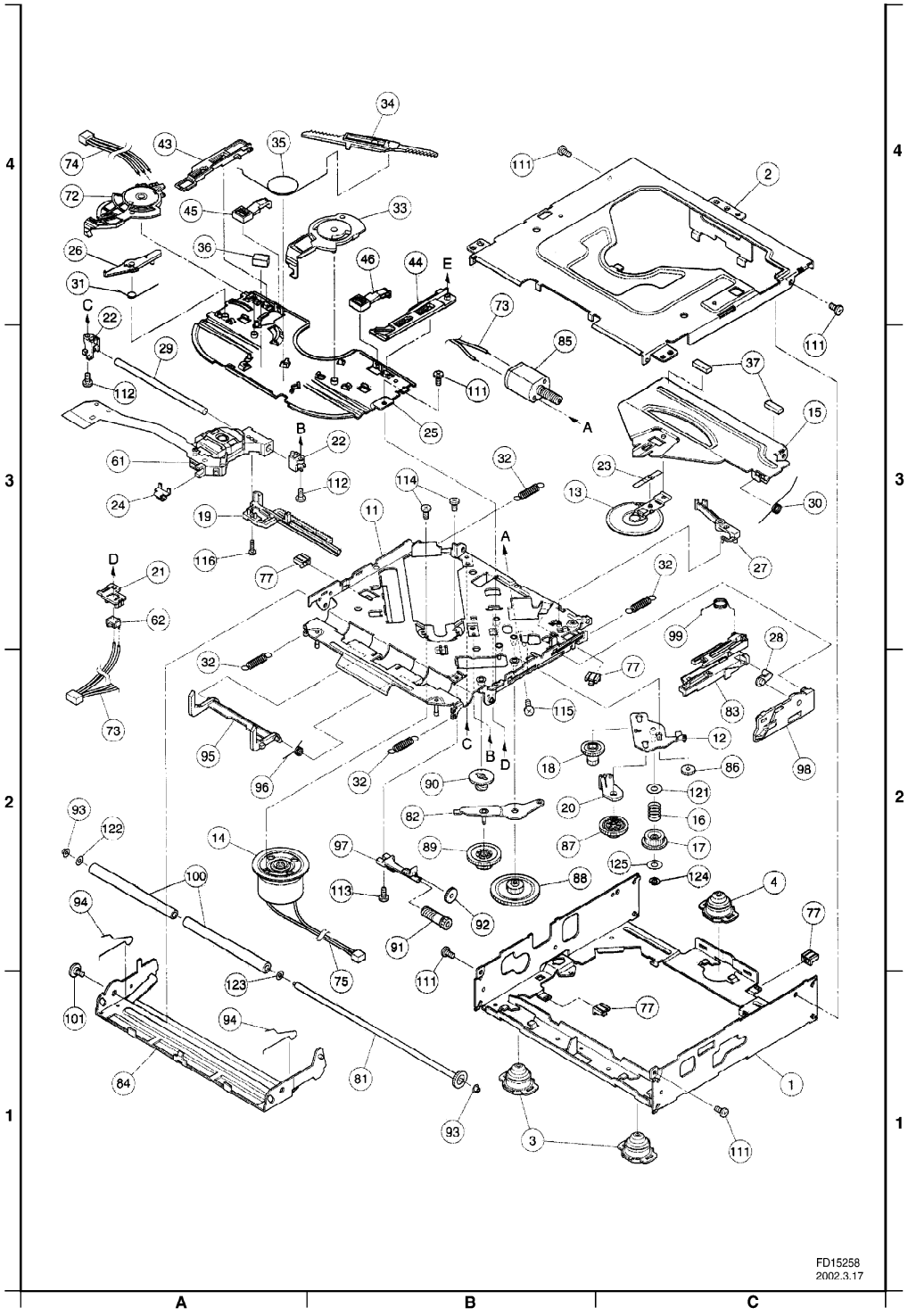


13. CD PLAYER MECHANICAL PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
1	YERFA01001	Frame M	(1-C)
2	YERFA01002	Top Cover M	(4-C)
3	YERFS04001	Dumper F	(1-B) (1-C)
4	YERFS04002	Dumper R	(2-C)
11	YERFA01003	Chassis Rivet Ass'y (M)	(3-B)
12	YERFX046001	Change Plate Rivet Ass'y (M)	(2-C)
13	YERFX007001	Clamper Ass'y	(3-C)
14	YERAK0001	Spindle Motor (M) Ass'y	(2-A)
15	YERFX046002	Clamper Arm M	(3-C)
16	YERFX005001	Changr Gear Spring	(2-C)
17	YERFX03001	Change Gear 2	(2-C)
18	YERFX03002	Feed Gear	(2-C)
19	YERFX03003	Feed Rack M	(3-A)
20	YERFX046003	Change Lock Lever M	(2-C)
21	YERFW04001	Feed SW Holder (M)	(3-A)
22	YERFW04002	PU Shaft Holder (M)	(3-A)
23	YERFX005002	Claper Sub Spring	(3-C)
24	YERFW04003	FD Sub Holder M	(3-A)
25	YERFA01004	Top Plate	(3-B)
26	YERFX046004	Select Lock Arm	(4-A)
27	YERFX046005	Trigger Arm M	(3-C)
28	YERFX046006	Slide Hook	(2-C)
29	YERFW01001	PU Shaft M	(3-A)
30	YERFX005003	Clamper Arm Spring M	(3-C)
31	YERFX005004	Select Lock Arm Spring	(4-A)
32	YERFX005005	Suspension Spring M	
33	YERFX046007	Select Arm R	(4-B)
34	YERFX03004	Link Plate	(4-B)
35	YERFX005006	Link Plate Spring	(4-A)
36	YERFS01001	Cushion F	(4-A)
37	YERFS01002	Cushion R	(3-C)
43	YERFX046008	Select Plate L	(4-A)
44	YERFX046009	Select Plate R	(4-B)
45	YERFX046010	Select Piece L	(4-A)
46	YERFX046011	Select Piece R	(4-B)
61	YERFD13001	Optical Pickup	(3-A)
62	YERAS0001	Detect SW	(3-A)
72	YERAS0002	Mode SW	(4-A)
73	YERAE02001	LD Wire Ass'y M	(2-A)
74	YERAE02002	SW Wire Ass'y M	(4-A)
75	YERAE02003	SP Wire Ass'y M	(2-B)
77	YERFX999001	Wire Clamper M	
81	YERFX03005	Roller Shaft Ass'y	(1-B)
82	YERFX046012	Loading Gear Plate Rivet Ass'y	(2-B)
83	YERFX046013	Loading Plate Ass'y	(2-C)
84	YERFX046014	Lock Arm Rivet Ass'y	(1-A)
85	YERAK0002	Loading/Feed Motor Ass'y (MB)	(3-B)
86	YERFX03006	Loading Gear 1	(2-C)
87	YERFX03007	Loading Gear 2	(2-C)
88	YERFX03008	Loading Gear 3	(2-B)
89	YERFX03009	Loading Gear 4	(2-B)
90	YERFX03010	Loading Gear 5	(2-B)
91	YERFX03011	Loading Gear 6	(2-B)
92	YERFX03012	Loading Gear 7	(2-B)

Ref. No.	Part No.	Part Name & Description	Remarks
93	YERFW04004	Roller Guide	(2-A) (1-B)
94	YERFX005007	Roller Guide Spring	(2-A)
95	YERFX046015	Disc Stopper Arm	(1-A) (2-A)
96	YERFX005008	Disc Stopper Arm Spring	(2-A)
97	YERFX046016	LD Gear Bracket	(2-B)
98	YERFX046017	L Slide Plate	(2-C)
99	YERFX005009	Loading Plate Spring	(3-C)
100	YERFX218001	LDG Roller	(3-A)
101	YERJS01001	PK Collar Screw A	
111	YERJT01001	Tapping Screw 2X3	
112	YERJT01002	Tapping Screw 2X4	
113	YEJT03117	Tapping Baind Screw 2X4	
114	YERJS01002	Camera Screw 1.7X1.8	
115	YERJS01003	Camera Screw 2X2	
116	YERJS01004	Camera Tapping Screw P3 M1.7X5	
121	YERJW01001	P Washer 3.5X8X0.3	
122	YERJW01002	HL Washer 1.85X5X0.13	
123	YERJW01003	Lumilar Washer 3.1X6X0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1X4X0.13	

14. EXPLODED VIEW (CD Deck)



15. WIRING DIAGRAM

15.1. Display Block

15.2. Main Block (Top View)

15.3. Main Block (Bottom View)

15.4. CD Servo Block
16. SCHEMATIC DIAGRAM -1
16.1. Display Block
17. SCHEMATIC DIAGRAM -2
17.1. Main Block
17.2. CD Servo Block
18. SCHEMATIC DIAGRAM for Printing with A4 Size
18.1. Main Block (Left Side)
18.2. Main Block (Right Side)
18.3. CD Servo Block (Left Side)
18.4. CD Servo Block (Right Side)

E-6896A

PA51 FM/AM ELECTRONIC TUNER

PA51 C58A00000106

PA51	FM	AM		FM	AM
1	0	0	12	3.0	3.4
2	0	0	13	3.3	3.4
3	0	0	14	0	0
4	0	0	15	0	0
5	0	0	16	0	2.0
6	1.0	2.8	17	5.0	5.1
7	8.1	8.2	18	0.5	0.5
8	8.1	0	19	4.1	2.1
9	0	0	20	2.3	0
10	0	0	21		

IC201 ELECTRONIC VOLUME

IC270 POWER AMP

IC900 RDS DECODER

IC400 PLL

IC600 CPU

IC600 C2CBHF000217

IC650 BUS INTERFACE

IC702 REG

IC704 REG

IC705 RESET

CN620

CN603

CN701

CN601

TO E-9136 CN1

TO E-9188 CJ640

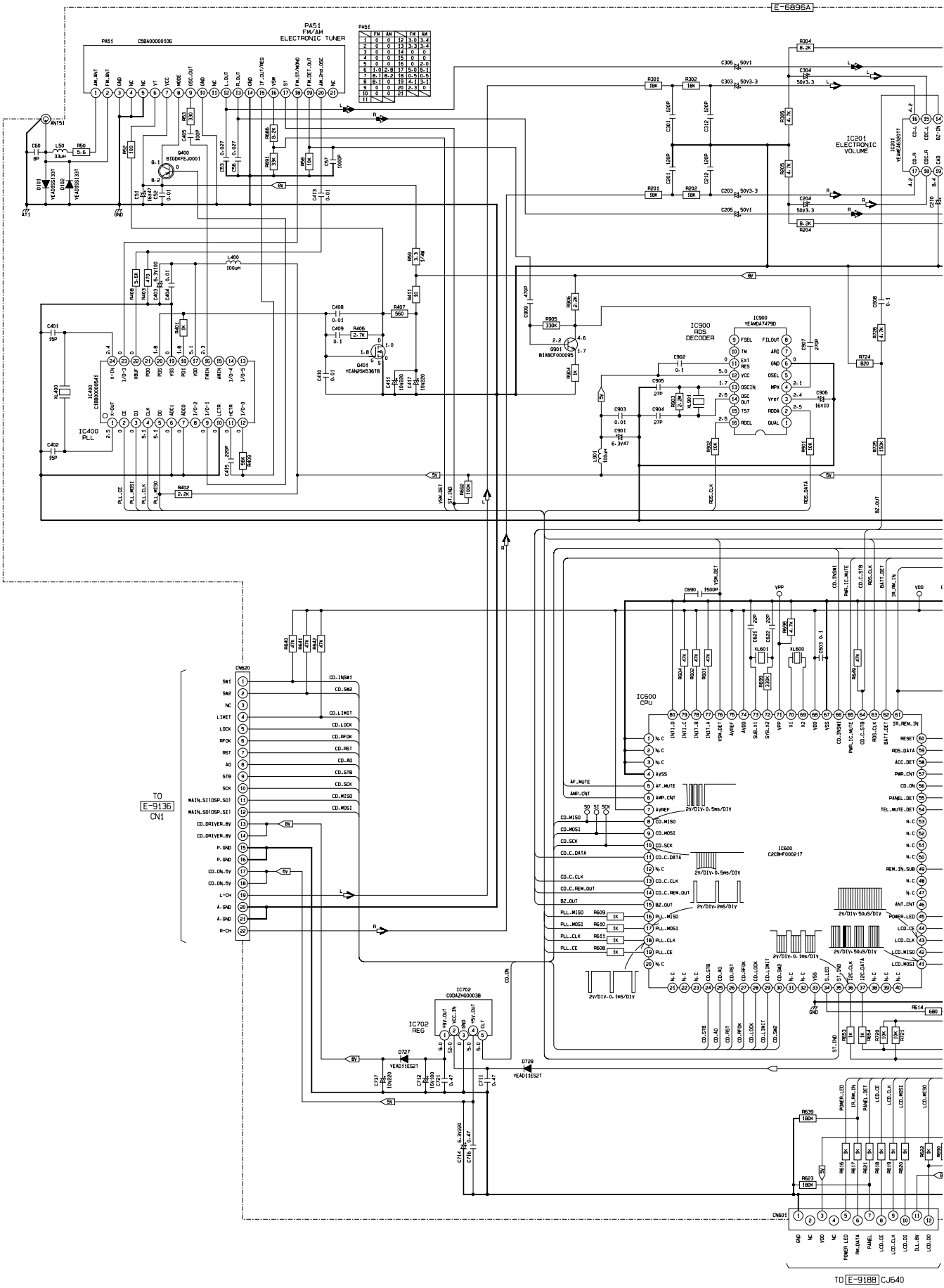
The following symbols are shown on the schematic diagram.

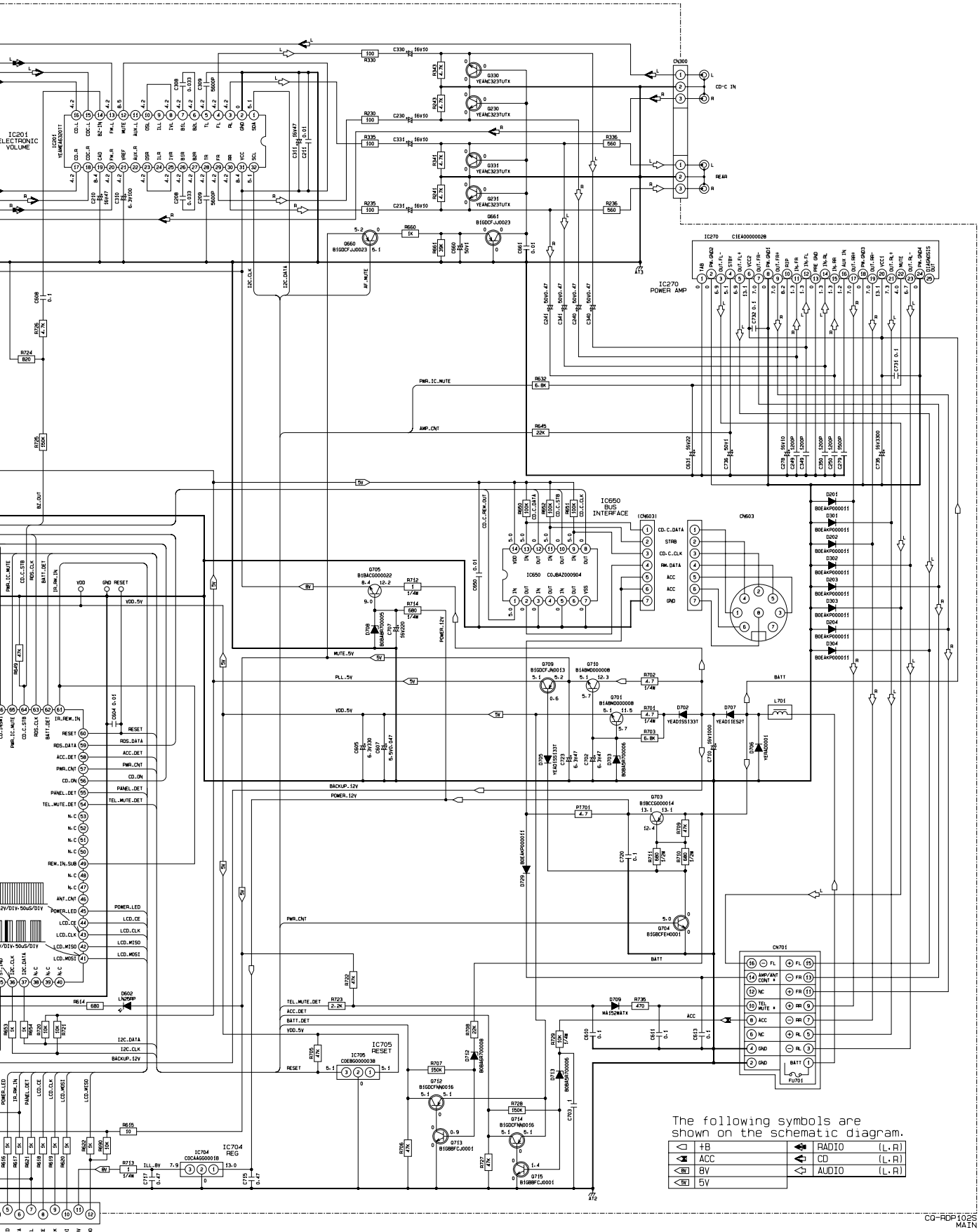
+B		RADIO	(L,R)
ACC		CD	(L,R)
8V		AUDIO	(L,R)
5V			

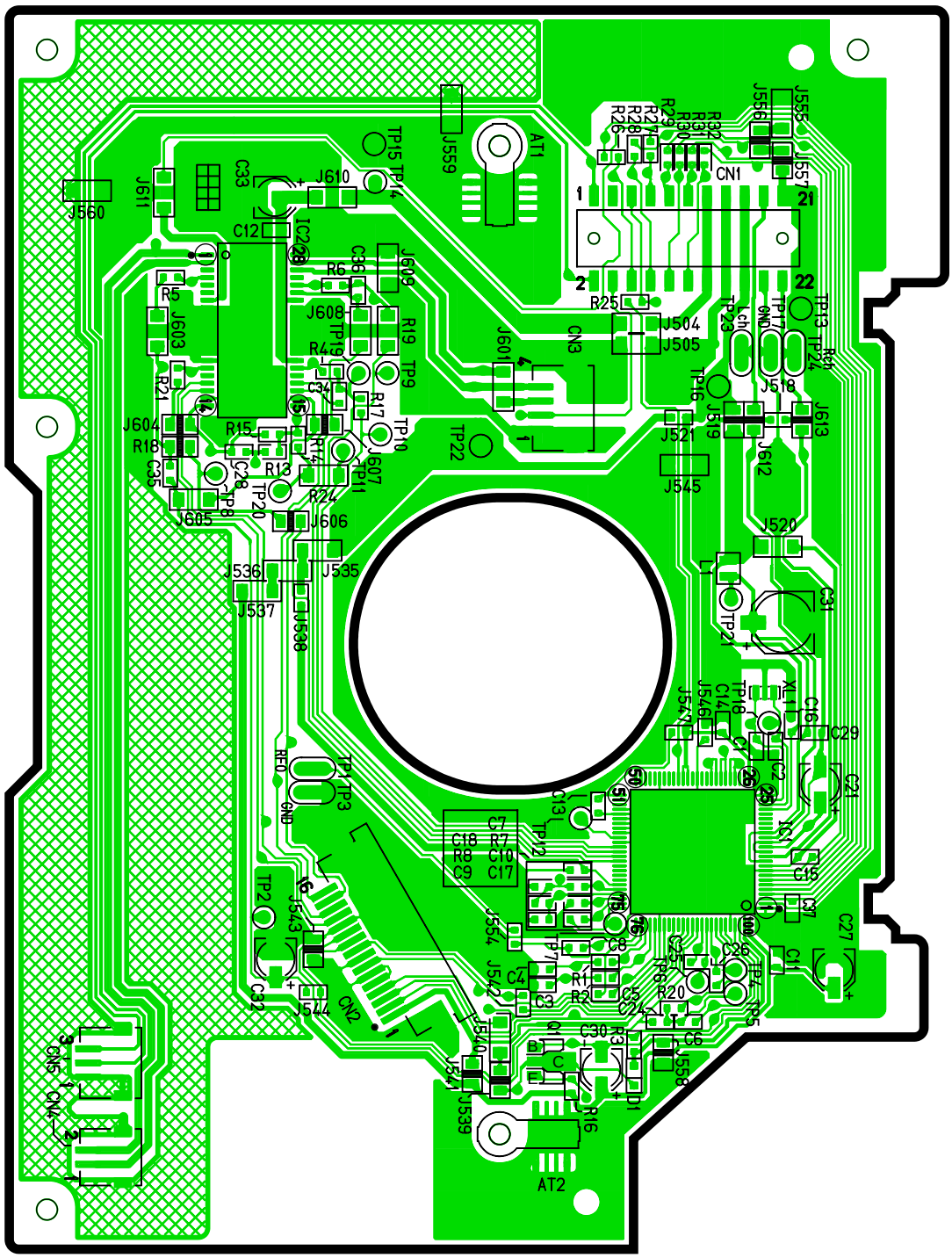
CQ-RDP102S
MAIN

17 SCHEMATIC DIAGRAM -2

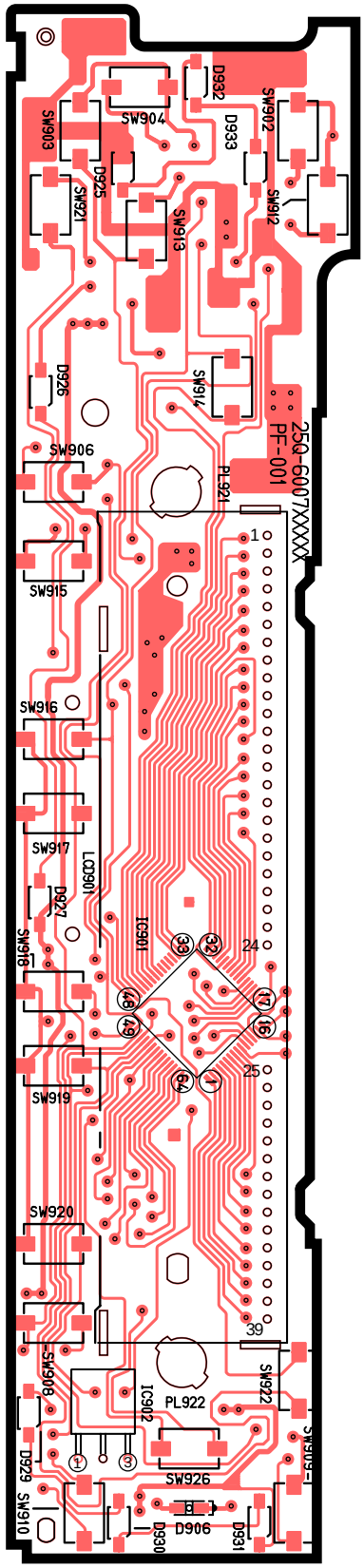
17.1. Main Block



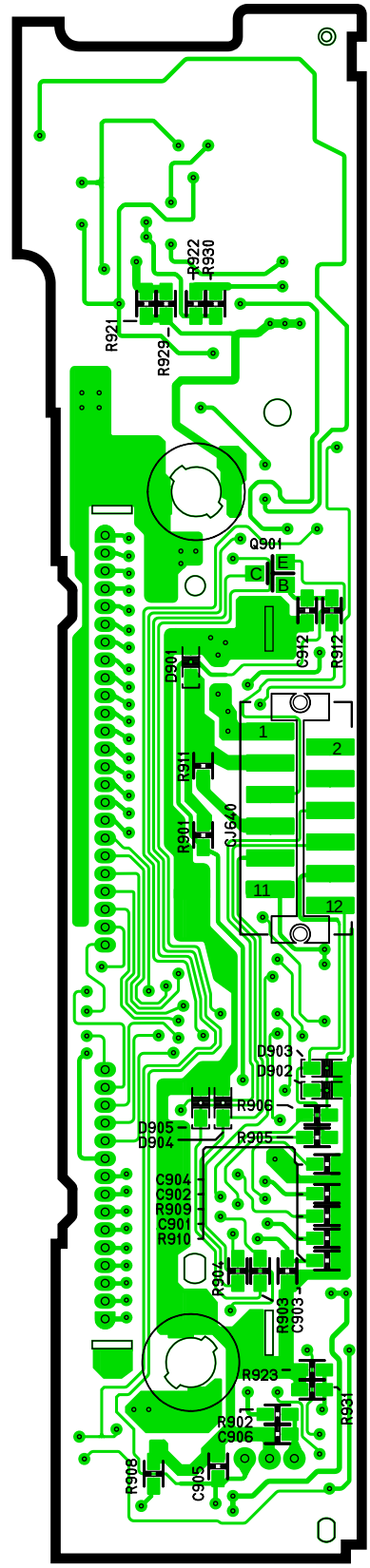

IC201
ELECTRONIC VOLUME
IC270
POWER AMP
IC650
BUS INTERFACE
IC705
RESET
IC704
REG
CN300
CD-C IN
REAR
CN603
CN701
L701
FU701
PWR.IC.MUTE
AMP.CNT
MUTE.5V
PLL.5V
VDD.5V
BACKUP_12V
POWER_12V
TEL_MUTE_DET
ACC_DET
BATT_DET
I2C_DATA
I2C_CLK
RESET
The following symbols are shown on the schematic diagram.
+B
ACC
8V
5V
RADIO (L,R)
CD (L,R)
AUDIO (L,R)
CQ-RDP102S
MAIN



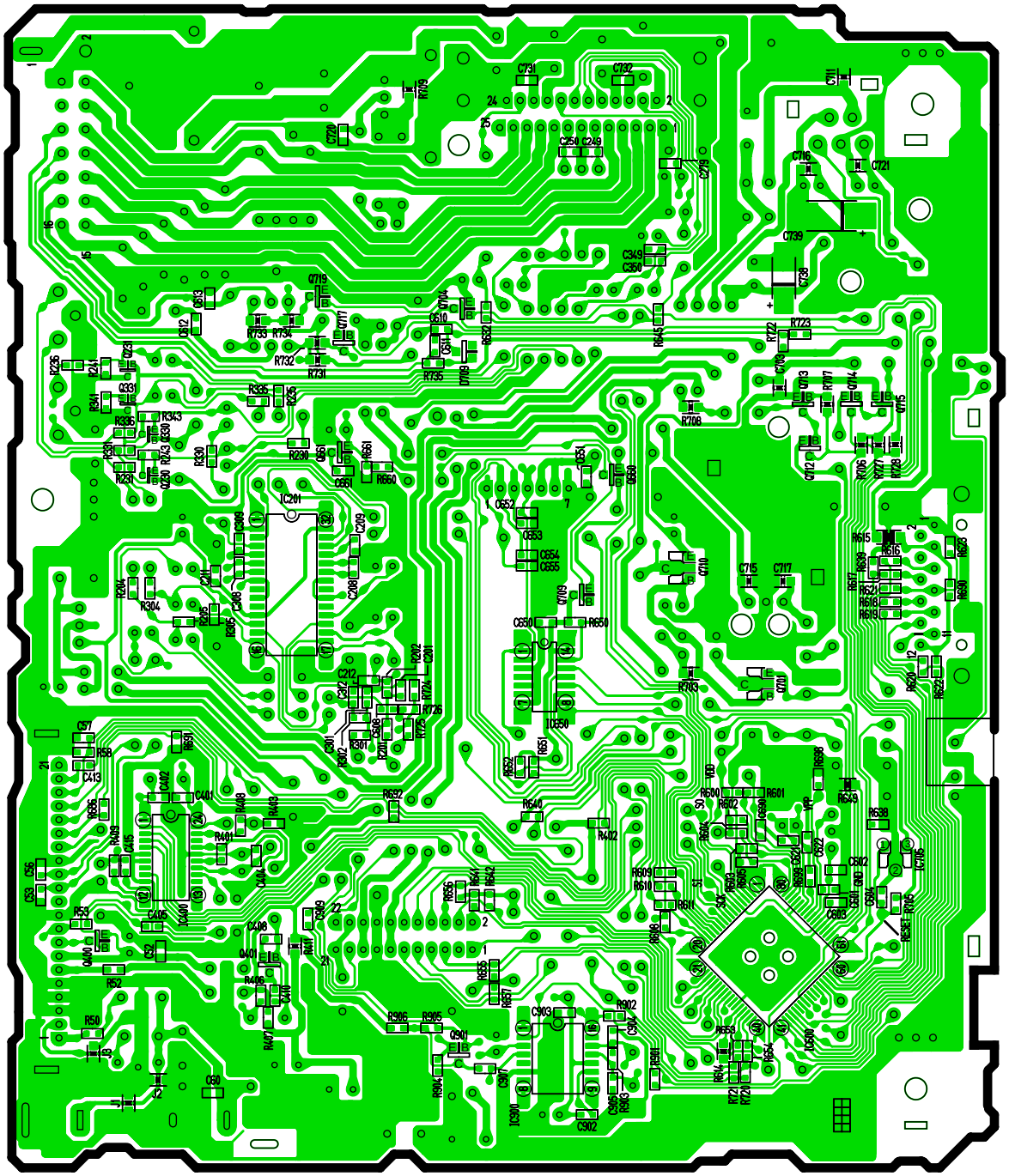
[E-9136] [BOTTOM VIEW]



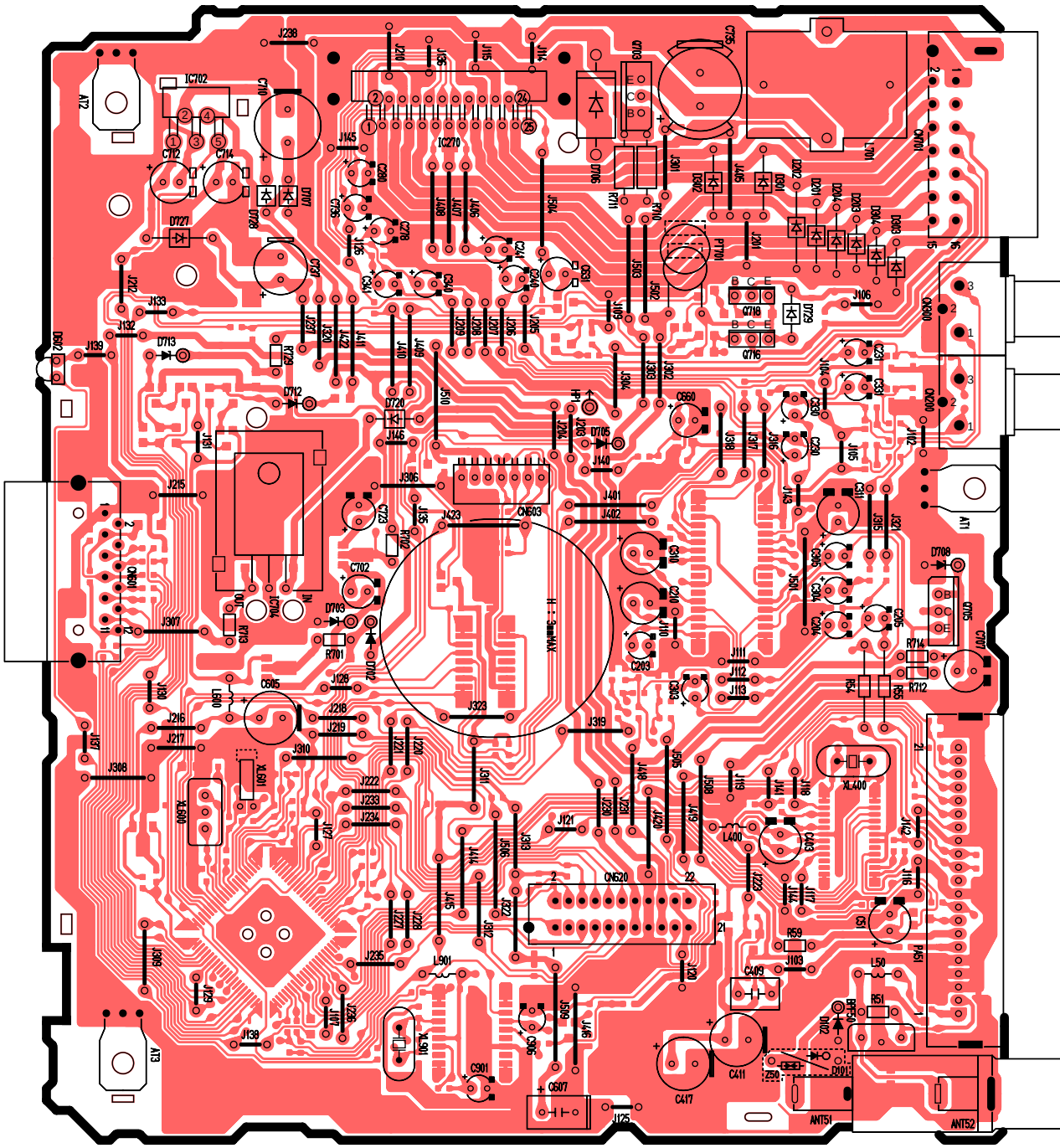
[E-9188] [TOP VIEW]



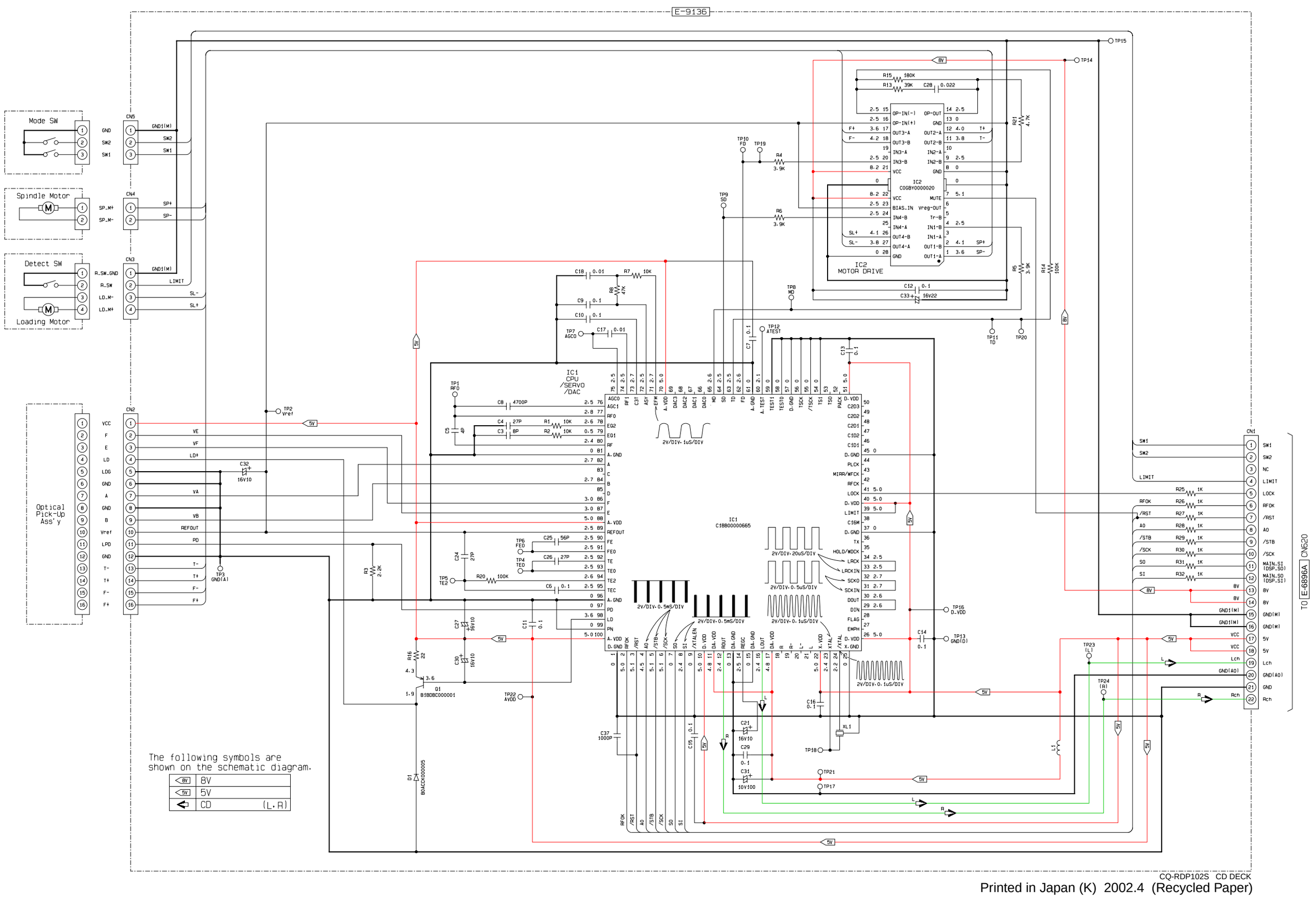
[E-9188] [BOTTOM VIEW]



[E-6896A] [BOTTOM VIEW]



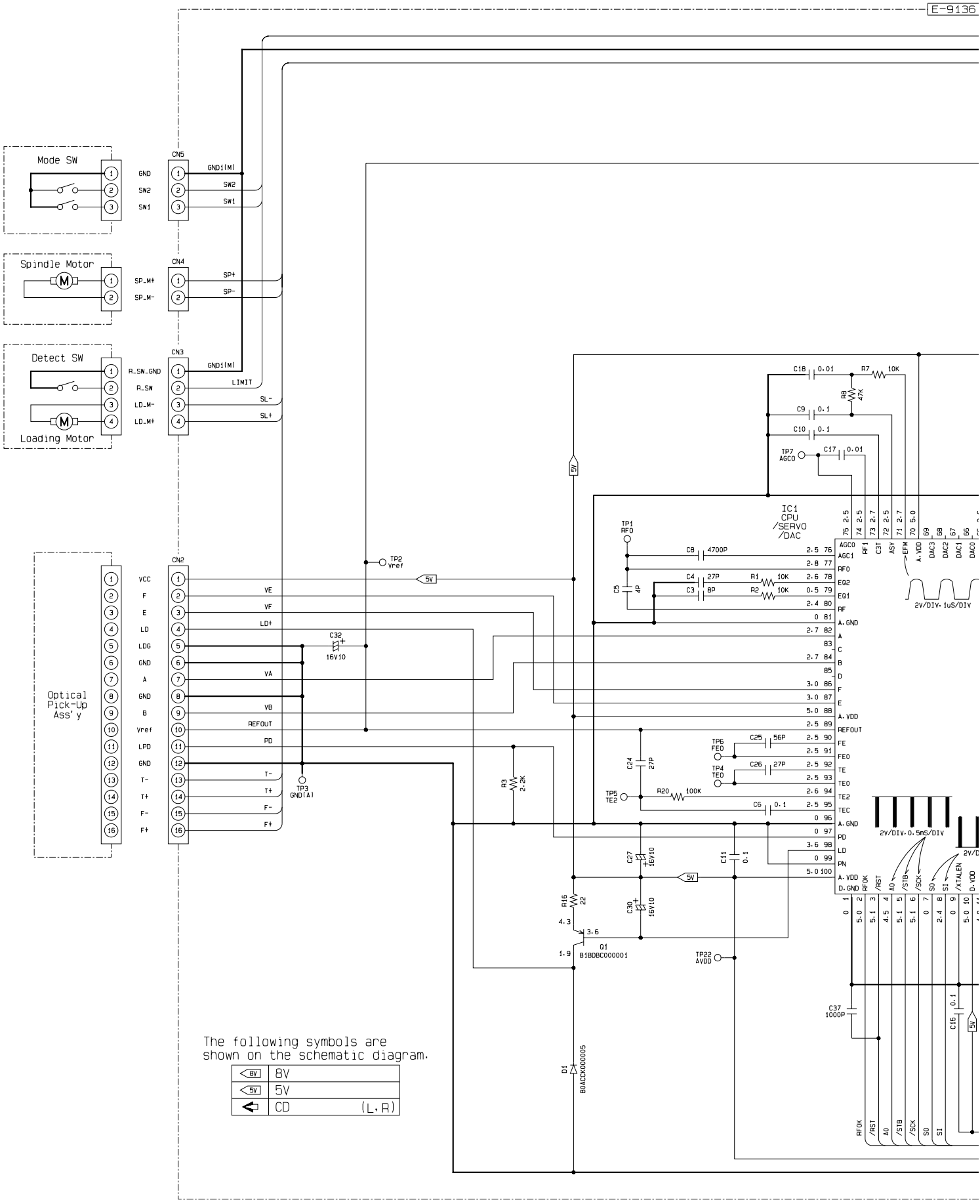
[E-6896A] [TOP VIEW]

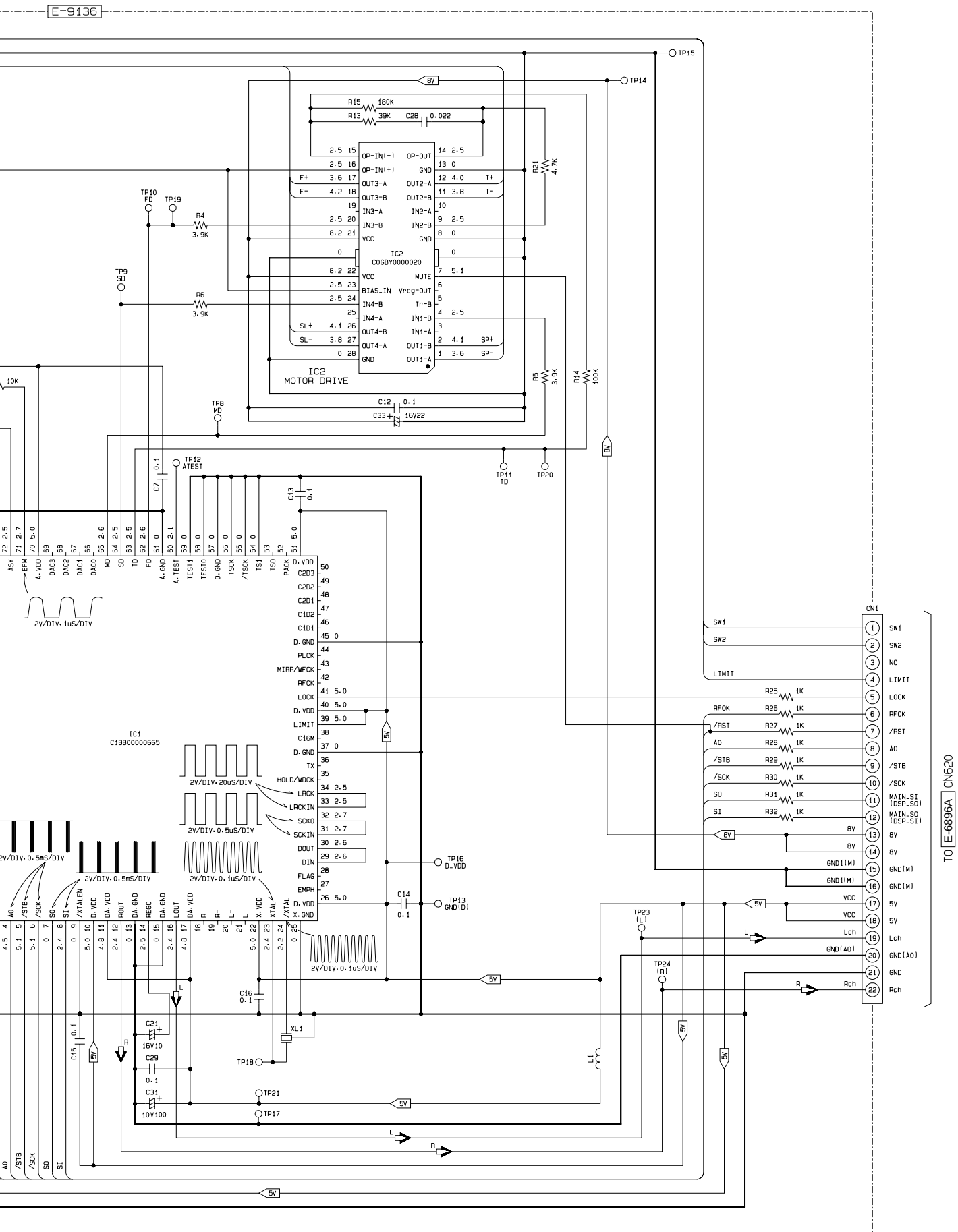


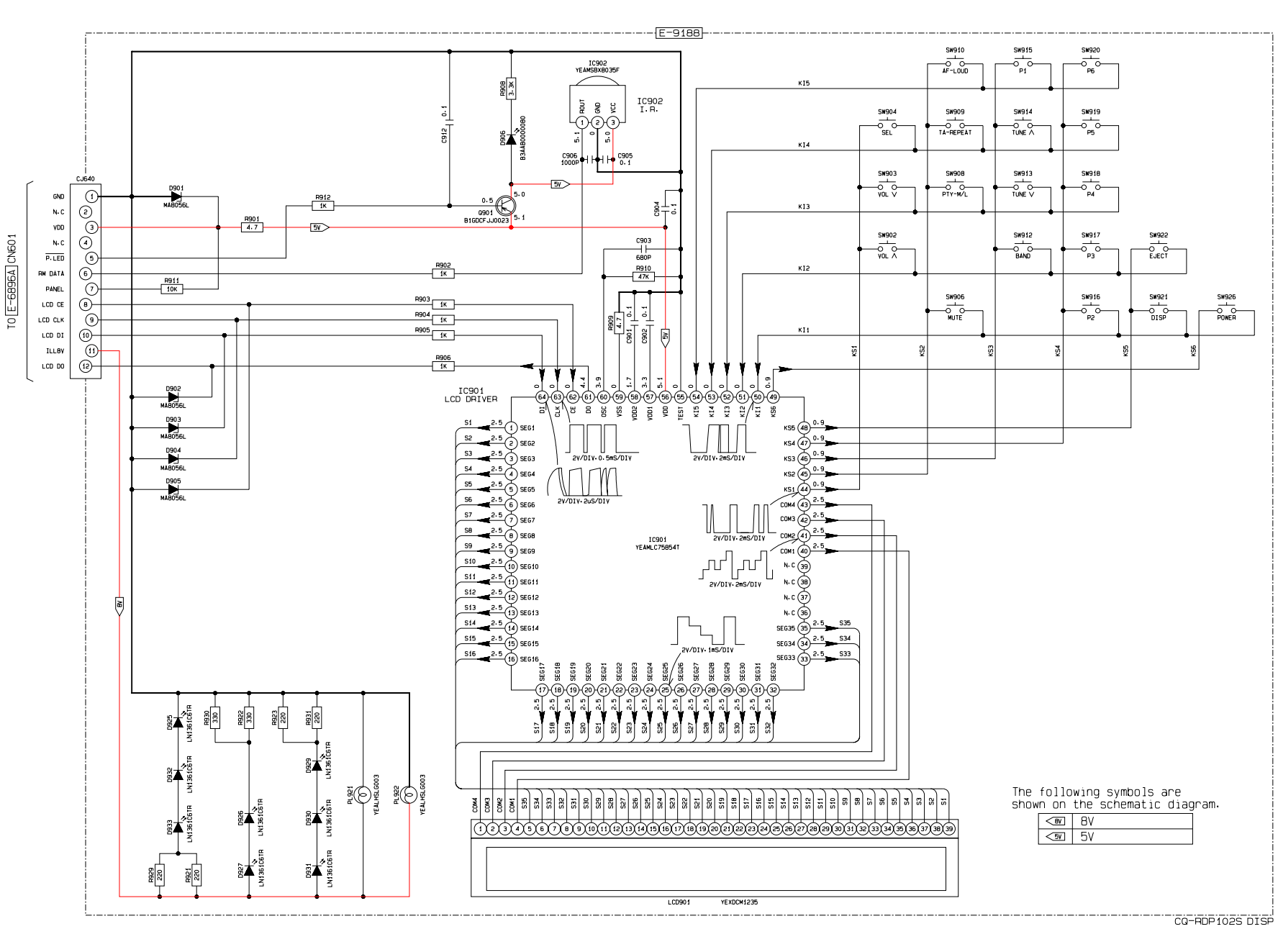
CQ-RDP102S CD DECK

Printed in Japan (K) 2002.4 (Recycled Paper)

17.2. CD Servo Block




E-9136
IC2
MOTOR DRIVE
IC2
C0GBY0000020
OP-IN(-)
OP-IN(+)
OUT3-A
OUT3-B
IN3-A
IN3-B
VCC
BIAS_IN
IN4-B
IN4-A
OUT4-B
OUT4-A
GND
OP-OUT
GND
OUT2-A
OUT2-B
IN2-A
IN2-B
GND
MUTE
Vreg-OUT
Tr-B
IN1-B
IN1-A
OUT1-B
OUT1-A
IC1
C1BB00000665
TP15
TP14
TP10 FD
TP19
TP9 SD
TP8 MD
TP12 ATEST
TP11 TD
TP20
TP16 D_VDD
TP13 GND(D)
TP18
TP21
TP17
TP23 (L)
TP24 (R)
XL1
L1
R15 180K
R13 39K
C28 0.022
R21 4.7K
R4 3.9K
R6 3.9K
R5 3.9K
R14 100K
C12 0.1
C33 16V22
C7 0.1
C13 0.1
C14 0.1
C16 0.1
C15 0.1
C21 16V10
C29 0.1
C31 10V100
8V
5V
CN1
SW1
SW2
NC
LIMIT
LOCK
RFOK
/RST
AO
/STB
/SCK
MAIN_SI (DSP_SO)
MAIN_SO (DSP_SI)
8V
GND1(M)
VCC
Lch
GND(AO)
GND
Rch
TO E-6896A CN620
2V/DIV・1uS/DIV
2V/DIV・20uS/DIV
2V/DIV・0.5uS/DIV
2V/DIV・0.5mS/DIV
2V/DIV・0.1uS/DIV


E-9188
TO E-6896A CN601
CJ640
GND
N.C
VDD
N.C
P.LED
RM DATA
PANEL
LCD CE
LCD CLK
LCD DI
ILL8V
LCD DO
D901 MAB056L
D902 MAB056L
D903 MAB056L
D904 MAB056L
D905 MAB056L
R901 4.7
R902 1K
R903 1K
R904 1K
R905 1K
R906 1K
R910 47K
R911 10K
R912 1K
C903 680P
C904 0.1
C905 0.1
C906 1000P
C909 0.1
C910 0.1
C912 0.1
R909 3.3K
D906 B3AAB0000080
Q901 B1GDCFJJ0023
IC902 YEAMGBXB035F
IC902 I.R.
ROUT
GND
VCC
5V
8V
IC901 LCD DRIVER
IC901 YEAMLC758547
2V/DIV·0.5mS/DIV
2V/DIV·2mS/DIV
2V/DIV·2uS/DIV
2V/DIV·1mS/DIV
SW910 AF-LOUD
SW915 P1
SW920 P6
SW904 SEL
SW909 TA-REPEAT
SW914 TUNE ∧
SW919 P5
SW903 VOL ∨
SW908 PTY-M/L
SW913 TUNE ∨
SW918 P4
SW902 VOL ∧
SW912 BAND
SW917 P3
SW922 EJECT
SW906 MUTE
SW916 P2
SW921 DISP
SW926 POWER
KI1
KI2
KI3
KI4
KI5
KS1
KS2
KS3
KS4
KS5
KS6
D925 LN1361C6TR
D932 LN1361C6TR
D933 LN1361C6TR
D926 LN1361C6TR
D927 LN1361C6TR
D929 LN1361C6TR
D930 LN1361C6TR
D931 LN1361C6TR
R930 330
R922 330
R923 220
R931 220
R929 220
R921 220
PL921 YEALHSL6003
PL922 YEALHSL6003
LCD901 YEXDCM1235
The following symbols are shown on the schematic diagram.
8V
5V